

## Product datasheet for **RG238568**

### TCP1 theta (CCT8) (NM\_001282908) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 theta (CCT8) (NM_001282908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCP1 theta
Synonyms:	C21orf112; Cctq; D21S246; PRED71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238568 representing NM\_001282908.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTGACAAAACGATGCAGCAACTATTTAAGA
GAACATAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCATATGCAAGAGCAAGAAGTT
GGAGATGGCACAAAATTTGTTCTGGTATTGCTGGAGCTCTCTGGAATTAGCTGAAGAAGCTTCTGAGG
ATTGGCCTGTCTAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGAGATCTT
CCTAATTTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTACC
TCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCT
ATTTTTCTGATTCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAAAATCTGGGCTCTGGTATC
AGTTCCTCTTCAGTATTGCATGGCATGGTTTTTAAAGAAGGAAACCGAAGGTGATGAACATCTGTCAA
GATGCAAAAATAGCAGTGTACTCTTGCCTTTTGTGGCATGATAACAGAAAATAGGGAACAGTGTG
ATAAAGACTGCTGAAGAATTGATGAATTTAGTAAAGGAGAAGAAAACCTCATGGATGCACAAGTCAA
GCTATTGCTGATACTGGTCAAAATGTCGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTAT
GCAAAATAATATAATATCATGTTAGTGAGGCTAAACTCAAAATGGGATCTCCGAAGACTTTGAAAAC
GTTGGTGTACAGCTCTTCTAGATTGACACCTCTGTCTTGAAGAAATGGGACTGTGACAGTGTT
TACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAAGCATGAAAAGGAAGATGGCGCCATTTCT
ACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGCGAGTAGACGATGGTGT
AATACTTTCAAAGTCTTACAAGGGATAAAGCTTGTACCCGGAGGTGGAGCAACAGAAATTGAATTA
GCCAAACAGATCACATCATATGGAGAGACATGCTCTGGACTTGAACAGTATGCTATTAAGAAGTTGCT
GAGGCATTTGAAGCTATTCCTCCGCGCACTGGCAGAAAACCTGGAGTTAAGGCCAATGAAGTAATCTCT
AAACTTTATGCAGTACATCAAGAAGGAAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCT
GTAAGGACATGCTGGAAGCTGGTATTCTAGACTTACCTGGGAAAATATTGGGCTATCAAACGCT
ACTAATGCTGCAGTCACTGTACTTAGAGTGGATCAGATCATCATGGCAAACAGCTGGTGGGCCCAAG
CCTCCAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238568  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MNMKVINHLEKLFVTNDAATILRELEVQHPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEELLR
IGLSVSEVIEGYEIACRKAHEILPNLVCCSAKNLRDIDEVSSLLRTSIMSKQYGNVFLAKLIAQCVS
IFPDSGFHFNVDNIRVCKILGSGISSSVLHGMVFKKETEGDVTSVKDAKIAVYSCPFDMITETKGTVL
IKTAEELMNFSGEENLMDAQVKAIDTGANVVVTGGKVADMALHYANKYNIMLVRNSKWDLRRLCKT
VGATALPRLTPPVLEEMGHCDVYLSEVGDQVVFVKHEKEDGAISTIVLRGSTDNLMDDIERAVDDGV
NTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAIPRALAENSGVKANEVIS
KLYAVHQEGNKNVGLDIEAEVPAVKDMLEAGILDYLGKYWAIKLATNAAVTVLRVDQIIMAKPAGGPK
PPSGKKDWDDQND
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

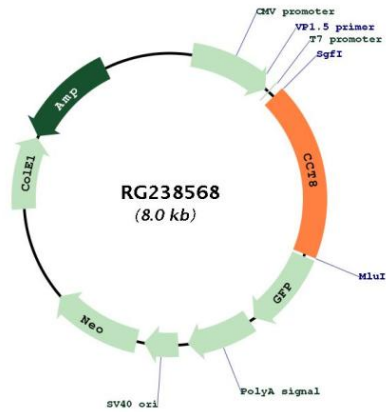
**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


- ACCN:** NM\_001282908
- ORF Size:** 1491 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- RefSeq:** [NM\\_001282908.1](#), [NP\\_001269837.1](#)
- RefSeq Size:** 2032 bp
- RefSeq ORF:** 1494 bp
- Locus ID:** 10694
- Cytogenetics:** 21q21.3
- Protein Families:** Druggable Genome
- MW:** 54.6 kDa
- Gene Summary:** This gene encodes the theta subunit of the CCT chaperonin, which is abundant in the eukaryotic cytosol and may be involved in the transport and assembly of newly synthesized proteins. Alternative splicing results in multiple transcript variants of this gene. A pseudogene related to this gene is located on chromosome 1. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RG238568